

Finding Journal Papers

Dr. Carlos Vargas

NASA ADS <https://ui.adsabs.harvard.edu/>

Database of millions of peer-reviewed and non-reviewed journal papers

Contains bibtex entries for creating bibliographies with LaTeX

ArXiv (Astrophysics section called 'Astro-ph')

arxiv.org

Repository of electronic *preprints*, and are often not peer-reviewed final journal versions. Generally the most 'hot off the press' results, and you can set up email alerts for relevant papers.

Annual Reviews:

To easily find these use the new ADS: bibstem: "ARA&A", or for example: bibstem: "ARA&A" reviews("gaseous galaxy halos")

Annual reviews discuss the fundamental state of a particular subfield. Typically very long, but contain everything you'd want to know about background of a field and also have tons of references.

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VoxCharta <https://arizona.voxcharta.org/>

A tool for institutions to vote on papers they want to discuss at science coffee-type meetings.

Sign up and you can keep track of what papers are being discussed, even if you can't make it to every science coffee.

Astrobites (Astrobitos):

astrobites.org (or astrobitos.org for the Spanish version!)

Daily summaries of recent peer-reviewed astrophysics papers. *The summaries are written by graduate students with the intention of being accessible to undergraduate physical science students.*

NASA/IPAC Extragalactic Database (NED)

- <https://ned.ipac.caltech.edu/>
- Use to find images/data for extragalactic sources.
- Can also find references for papers that study specific objects!

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How to read papers

- The “Getting to the Point” method: Read the Abstract and then immediately read the Conclusions. This helps establish the major points of the paper. Then, parse through the Figures one by one. Finally, read the Introduction and the rest.
- The “Big Picture Method”: Read the Abstract, then slowly and intentfully read through the Introduction. Then, read through the Conclusions to see how they answered questions from the Introduction. Finally, return to the Figures and the rest of the paper text.